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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/738,382	12/16/2003	Soon-Gil Jung	QKL004 US	7260	
34036	7590 03/28/2005		EXAM	EXAMINER	
	VALLEY PATENT GRO	VU, BAO Q			
2350 MISSION COLLEGE BOULEVARD SUITE 360 SANTA CLARA, CA 95054			ART UNIT	PAPER NUMBER	
			2838		
			DATE MAILED: 03/28/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/738,382	JUNG, SOON-GIL			
Office Action Summary	Examiner	Art Unit			
	Bao Q. Vu	2838			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period vormation of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		·			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12-23-04	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 2 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrase of claim 1 "the variable capacitor comprises a transistor having a first terminal, a second terminal and a third terminal, the first terminal coupled to the output terminal of the first amplifier, and the second terminal and third terminal coupled to the second terminal of the second amplifier." Is not shown in the drawings. Please disclose exactly where this connection can be found in the drawings and cite the specific section of the specification that has this feature. Claim 3 also has the same problem.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the variable capacitor comprises a transistor having a first terminal, a second terminal and a third terminal, the first terminal coupled to the output terminal of the first amplifier, <u>and the second terminal</u> and third terminal coupled to the second terminal of the second amplifier must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1, 2, 4, 5, 11 and 12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Lusher et al. (USP 5,640,082). Lusher discloses (figure 2) an amplifier (unlabeled), a second amplifier (117) and a variable capacitor (13).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 7-10, 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lusher et al. (USP 5,640,082) in view of Voo (USP 6,566,846). Lusher discloses the claimed invention except for the use of a plurality of regulators having a control circuit (programmable) and load being equidistant form the plurality of voltage regulators. Voo discloses that it is known in the art to provide the use of a plurality of regulators having a control circuit (programmable) and load being equidistant form the plurality of voltage regulators. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to provide the plurality of regulators having a control circuit (programmable) and load being equidistant form the plurality of voltage regulators of Voo with the controlled switched variable capacitance of Lusher, in order to provide a plurality of voltages at each regulator outputs and to provide redundancy in the case of failure of one of the regulators.

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8. Claims 3, 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lusher et al. (USP 5,640,082) in view of Brokaw (USP 5,686,821). Lusher discloses the claimed invention except for the voltage divided output of the low dropout voltage regulator. Brokaw discloses that it is known in the art to provide the voltage divided output of the low dropout voltage regulator. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to provide the voltage divided output of the low dropout voltage regulator of Brokaw with the controlled switched variable capacitance of Lusher, in order to provide ratio-ed sensed output of the switching regulator.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Vu whose telephone number is (571) 272-2088. The examiner can normally be reached on Monday-Fridays, 8:00AM- 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Q. Vu

Primary Examiner Art Unit 2838

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